

# Training Medical Assistants: Enhancing the Role of CMAs in Hypertension Control

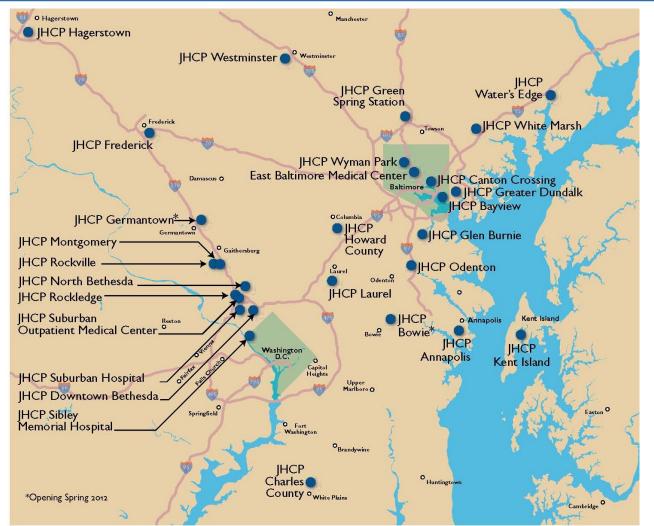
#### **Learning Objectives**



- What role do Certified Medical Assistants (CMA) play in hypertension management?
- Review a model for training CMAs
  - Competency Based Orientation Program (CBOR)
  - Annual competency reassessment
- Outcomes

## Johns Hopkins Community Physicians





- 36 outpatient sites
- 11 counties, Baltimore City
- 200 PCPs
- 1000 staff
- 750 K encounters
- 220 K patients
- EMR & Disease registry
- 61 K with HTN

### Role of Medical Assistants in **HTN Management**



- Patient intake for clinician visits
  - Accurate blood pressure measurement
  - Medicine reconciliation
  - Refill set-up
  - Patient education
- Interval visits: "blood pressure checks"
- Health coaching



#### Who measures the BP?

- Medicine relies on team-based care
- Non-licensed staff provide most support in ambulatory care
  - Variable training standards
  - No standards for maintenance of competency
  - Staff unaware of their own skills gaps.
- Well–trained CMAs can contribute to desired outcomes

#### Scope of Practice: RN, LPN, MA



Title	Education	Licensing-certification	What can be	Limitations
			delegated	
Nurses	BSN:3-4 yr.	Licensed;	Assess and triage	May not diagnose
RN,BSN	degree	Nursing boards NCLEX	Analyze patient data	or
	Diploma: 3 yr.		Determine nursing	prescribe;
	hospital based		diagnosis	delegation is
	training		Plan of care	limited.
			Patient Education	
LPN/LVN	High school	Licensed, though	Limited practice	Limited compared
	diploma w 8-	scope of license is	compared to RN;	to RN;
	12 mo. in	different than RN's	Collaborates with	May NOT triage
	college or		patient, family, RN and	or assess
	career school		other providers	
Medical	High school	Non-licensed;	Practice under the	May not triage or
assistants	diploma; 6 -18	Medical Assistant	delegating physician	assess; role in
	mo. practical	Exam (CMA, RMA)	license	education is
	MA program			limited to
				providing material



#### **Training & Competency Program**

- Competency Based Orientation Program (CBOR)
  - Assessment of core clinical skills and knowledge
  - Occurs prior to practice
  - Develop personal action plan
  - Communication with supervisor and mentor
- 2. Interval Visit Training ("BP check")
- 3. Annual Competency Reassessment
  - Skills verification by observer
  - Knowledge assessment

#### Competency Based Orientation **Elements**



- Blood Pressure Measurement
- Syringe Competency
- Intradermal Injection
- Induration Measurement



#### **CBOR Pass Rates**



Cohort	N	Intradermal Pass	Blood Pressure	Syringe Pass Rate	
		Rate	Pass Rate	Pre-Instructions <sup>‡</sup>	Post-Instructions
Cohort 1, 2003	111	91%*	90%*	n.a.	52%
Cohort 2, 2004-2009	240	91%	84%	n.a.	62% <sup>‡</sup>
			(P=0.171)		(P=0.082)
Cohort 3, 2010-2011	92	94%	92%‡	n.a.	71% <sup>‡</sup>
			(P=0.041)		(P=0.144)
Cohort 4, 2011-2012	35	89%	94%	20%	74% <sup>‡</sup>
			(P=0.710)		(P=0.685)
All Combined†	478	92%	90%	n.a.	62%

### Interval visits: "Blood pressure checks"



- Provider-ordered visits following med adjustments
- EMR template supported measurement & appropriate decision making:
  - Goal BP
  - Med Review including side effects
  - Education prompts
  - Notify parameters

BP Assessment	BP Assessment cont'd			
hief Complaint: Blood pre	ssure monitoring			
listory				
the patient answers YES to	any of the following questions, consult a provider after checking BP.			
the patient experiencing	any of the following symptoms:			
	Headache: C Yes C No Additional Hx:			
Visual disturbance	(spots/blurred): Yes No Additional Hx:			
	Edema/SOB: Yes No Additional Hx:			
	Dizziness: C Yes C No Additional Hx:			
N	ausea/vorniting: Yes No Additional Hx:			
	Epistaxis: Yes No Additional Hx:			
	medications or side effects: Yes No			
erify understanding and o	ompliance: Update Meds			
Current Medications:	FOCALIN XR 10 MG CP24 (DEXMETHYLPHENIDATE HCL) Take one tablet by mouth every morning DIAGNOSIS: ADHD PAROXETINE HCL 20 MG TABS (PAROXETINE HCL) Take 1 tablet by mouth daily for depression. [BMN] NICARDIPINE HCL 30 MG CAP (NICARDIPINE HCL) Take 1 capsule by mouth once a day			
Review:	Patient does not know any of his/her meds Patient out of one or more med. Patient has not been taking one or more med I reviewed the med list above and patient verifies these are correct			
Comments:	☐ I reviewed the med list but the patient is not sure what medications they are taking ☐ I reviewed the med list and the patient indicates the following discrepencies:			
hysical				
	n o distress ther			
	P: 120 / 80 (07/11/2011 1:47:57 PM) Blood Pressure #1: / mm Hg			
Previous Bi	. / Dioux Pressure #2. / Hilli nu			
Previous Bi				
Previous BF Previous BF				
Previous BF Previous BF	Blood Pressure #3: / mm Hg			
Previous BF Previous BF	P: / Blood Pressure #3: / mm Hg  Systolic BP <90 or >140 (or >130 for diabetics): Yes No  Diastolic BP <60 or >90 (or >85 for diabetics): Yes No			
Previous Bi Previous Bi Previous Bi Comments:	P: / Blood Pressure #3: / mm Hg  Systolic BP <90 or >140 (or >130 for diabetics): Yes No  Diastolic BP <60 or >90 (or >85 for diabetics): Yes No			
Previous Bi Previous Bi Previous Bi Comments:	Systolic BP <90 or >140 (or >130 for diabetics): Yes No Diastolic BP <60 or >90 (or >85 for diabetics): Yes No  No No No No No No No No No No No No			
Previous Bit Previous Bit Previous Bit Comments:	Systolic BP <90 or >140 (or >130 for diabetics):			
Previous Bit Previous Bit Previous Bit Comments: BP is outside specified range Previous Pulse	Systolic BP <90 or >140 (or >130 for diabetics):			



#### **Annual Competency Reassessment**

- Address decay of skills/knowledge
- Internal needs assessment:
  - PSNs, anecdotes, practice input
  - Interprofessional Team, Management & HR
- Program content & development
- Resources: Geography, staff, consistency, time and availability
- Two cycles completed since summer 2012



#### **Annual Competency Reassessment**

#### **Skills**

- Blood pressure
- Intradermal injection
- Syringe volumes
- Pediatric & Adult SQ and IM injection

#### <u>Knowledge</u>

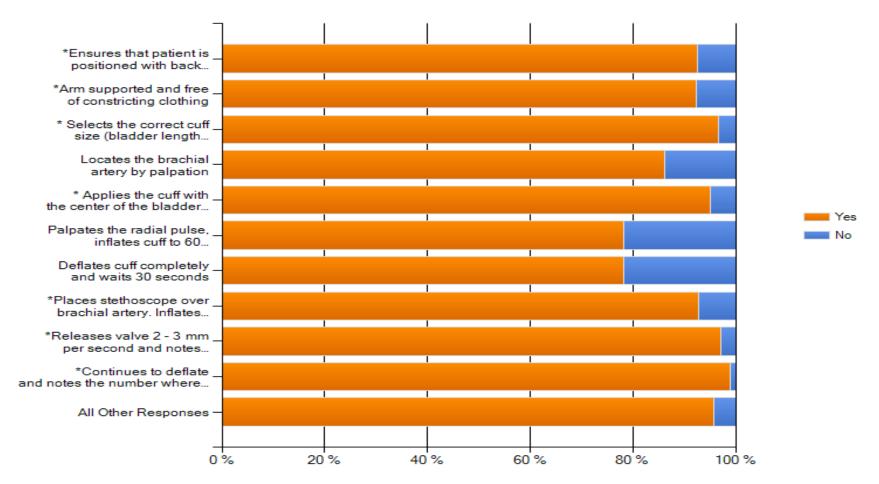
- Meds, Vaccines
- Procedures & Safety



#### **Blood Pressure Measurement**



#### **Blood Pressure Measurement**



### Pass Rates: Blood Pressure Measurement\*



- Registered Nurse (56): 89.3%
- Licensed Practical Nurse (19): 84.2%
- Certified Medical Assistant (217): 82.9%
- Overall (292): 84.2%

\*All staff were remediated and were subsequently able to pass required elements.

#### **Outcomes**



- Providers highly satisfied with CMA skills:
  - BP measurement: 90.3%
  - Perform/record other vital signs: 96.1%
  - Reviewing & set up medication refills: 79.4%
  - Administer immunizations: 96.1%
  - Perform and measure PPD: 92.2%
- Among 51,158 unique patients with HTN seen 4/4/13 through 1/31/14, 65% controlled\*

#### **Conclusions**



- Medical assistants are important members of primary care teams who can assist HTN control.
- Competency assessments of CMAs show significant skills deficits that can be corrected.
- Periodic reassessment showed significant skills drift, including BP measurement.
- Training contributes to successful CMA involvement in systemic effort to control HTN.